

## 1 EU - Type Examination Certificate

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: ExVeritas 17 ATEX 0277 X Issue: 0

4 Equipment: ToughPIX DIGITHERM Cameras TP3aEx, TP3kEx, TP3rEx

5 Manufacturer: CorDEX Instruments Limited

6 Address: Unit 1 Owens Road, Skippers Lane Industrial Estate  
Middlesbrough, Cleveland  
TS6 6HE, UK

7 This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

8 ExVeritas, Notified Body number 2585 in accordance with Article 9 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment and protective systems for use in potentially explosive atmospheres given in Annex II to the Directive

9 Compliance with the applicable Essential Health and Safety Requirements has been assured by compliance with the following Standards and section 16 of this certificate:

EN 60079-0:2012+A11:2013 EN 60079-28:2015  
EN 60079-11:2012

10 If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design, construction, examination and tests of the specified equipment or protective system in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.


12 The marking of the equipment shall include the following:

 II 2G Ex ib op is IIC T4 Gb Ta = -10°C to +40°C



No. 8613

On behalf of ExVeritas

  
S D Henin  
Certification Manager

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The certificate is only valid when it carries an original signature.

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## Schedule

### 13 Description of Equipment or Protective System

The camera is a battery powered hand held dual-mode digital with auto-focus and IR camera with preview LCD. User interface is via joystick control. Images are stored on a removable memory card. Only the CorDEX SD card may be used.

External communication is with embedded WIFI and GPS capability included.

The IP54 enclosure is made from aluminium. Access is available to replace the battery and memory card.

The equipment is battery powered by single rechargeable Lithium-Ion cell in a battery pack. The battery is removed from the camera for charging. Both removal and charging of the battery are only permitted in safe areas.

Only the CorDEX battery pack and memory card may be used.

#### Models description:

- TP3aEx ToughPIX 3a, Ex ib IIC T4 Gb 2MP Intrinsically Safe Digital Thermal Camera
  - TP3kEx ToughPIX 3k, Ex ib IIC T4 Gb 5MP Intrinsically Safe Digital Thermal Camera
  - TP3rEx ToughPIX 3r, Ex ib IIC T4 Gb 5MP Intrinsically Safe Digital Thermal Camera
- (All the camera models are software configured using the same hardware)

#### Accessories used in the camera

- CDX16IS CorDEX 64Gb IS Memory Card
- CDX04IS CorDEX 16Gb IS Memory Card
- CDX370 3.7V Lithium Battery Pack

### 14 Descriptive Documents

#### 14.1 Associated Report and Certificate History:

Report Number	Cert Issue Date	Issue	Comment
R1060/A/1	2017-10-13	0	Initial issue of the Prime Certificate

#### 14.2 Compliance Drawings:

##### Issue 0

Number	Date	Issue	Description
CDX8950-200	15/08/2017	Rev1.1	CorDEX IS-Camera IS/ATEX system schematic
CDX8950-201	28/08/2017	Rev1.1	CorDEX IS-Camera IS/ATEX system BOM
CDX8950-210	25/08/2017	Rev1.2	IS-Camera Imager PCB schematic
CDX8950-211	03/10/2017	Rev1.2b	IS-Camera Imager BOM
CDX8950-213	01/08/2017	Rev1.2	IS-Camera Imager PCB fabrication drawing
CDX8950-214	01/08/2017	Rev1.2	IS-Camera Imager PCB assembly drawing
NA	04/08/2017	Rev1.2	IS-Camera Imager RS274 (gerbers)
CDX8950-220	18/07/2017	Rev1.2	IS-Camera BatteryPack PCB schematic
CDX8950-221	17/07/2017	Rev1.2	IS-Camera BatteryPack BOM
CDX8950-223	18/07/2017	Rev1.2	IS-Camera BatteryPack PCB fabrication drwg
CDX8950-224	18/07/2017	Rev1.2	IS-Camera BatteryPack PCB assembly drawing

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**Schedule**

Number	Date	Issue	Description
NA	18/07/2017	Rev1.2	IS-Camera BatteryPack RS274 (gerbers)
CDX8950-230	15/08/2017	Rev1.3	IS-Camera FlashLED PCB schematic
CDX8950-231	15/08/2017	Rev1.3	IS-Camera FlashLED BOM
CDX8950-233	15/08/2017	Rev1.3	IS-Camera FlashLED PCB fabrication drwg
CDX8950-234	15/08/2017	Rev1.3	IS-Camera FlashLED PCB assembly drawing
NA	15/08/2017	Rev1.3	IS-Camera FlashLED RS274 (gerbers)
CDX8950-240	07/07/2017	Rev1.1	IS-Camera BattConn PCB schematic
CDX8950-241	18/07/2017	Rev1.1	IS-Camera BattConn BOM
CDX8950-243	07/07/2017	Rev1.1	IS-Camera BattConn PCB fabrication drwg
CDX8950-244	07/07/2017	Rev1.1	IS-Camera BattConn PCB assembly drawing
NA	07/07/2017	Rev1.1	IS-Camera BattConn RS274 (gerbers)
CDX8950-250	14/03/2017	Rev1.0	IS-Camera SDCard PCB schematic
CDX8950-251	16/03/2017	Rev1.0	IS-Camera SDCard BOM
CDX8950-253	15/03/2017	Rev1.0	IS-Camera SDCard PCB fabrication drwg
CDX8950-254	15/03/2017	Rev1.0	IS-Camera SDCard PCB assembly drawing
NA	15/03/2017	Rev1.0	IS-Camera SDCard RS274 (gerbers)
CDX8950-260	01/08/2017	Rev1.1	IS-Camera NUCFFC PCB schematic
CDX8950-261	02/08/2017	Rev1.1	IS-Camera NUCFFC BOM
CDX8950-263	02/08/2017	Rev1.1	IS-Camera NUCFFC PCB fabrication drwg
CDX8950-264	02/08/2017	Rev1.1	IS-Camera NUCFFC PCB assembly drawing
NA	02/08/2017	Rev1.1	IS-Camera NUCFFC RS274 (gerbers)
CDX8950-270	18/07/2017	Rev1.1	IS-Camera Limiter PCB schematic
CDX8950-271	21/06/2017	Rev1.1a	IS-Camera Limiter BOM
CDX8950-273	21/06/2017	Rev1.1	IS-Camera Limiter PCB fabrication drwg
CDX8950-274	21/06/2017	Rev1.1	IS-Camera Limiter PCB assembly drawing
NA	21/06/2017	Rev1.1	IS-Camera Limiter RS274 (gerbers)
CDX8950-400	01/08/2017	Rev B	IS-Camera General Assembly
CDX9850-401	26/09/2017	Rev 0.1b	IS-Camera GA Material BOM
CDX8950-405	22/06/2017	Rev A	IS-Camera Surface areas (non-metallic)
CDX8950-406	01/08/2017	Rev B	IS-Camera Component Insulators
CDX8950-407	27/06/2017	Rev A	IS-Camera FlashLED potting
CDX8950-409	18/07/2017	Rev A	IS-Camera BatteryPack X-section
CDX8950-445	18/09/2017	Rev A	IS-Camera rating plate
CDX8950-448	18/07/2017	Rev A	IS-Camera Infallible GND wire drwg
CDX8950-450	15/03/2017	Rev A	IS-Camera Door Assembly GA
CDX8950-470	22/06/2017	Rev A	IS-Camera BatteryPack GA

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### Schedule

Number	Date	Issue	Description
CDX8950-511	29/09/2017	Rev A	IS-Camera Safe Operations Manual
CDX1830-054	23/06/2017	Rev A	IS-Camera FFC Insulation (for FlashLED)
SOM15A	25/09/2017	Rev A	EC Declaration of Conformity (DIGITHERM)

15 Conditions of Certification

15.1 Special Conditions for Safe Use

- *Only CorDEX approved accessories (battery pack and memory card) are permitted to be used in the ToughPIX DIGITHERM Cameras. The use of others accessories invalidate the approval for explosive atmospheres.*

15.2 Conditions for Use  
(Routine Tests)

None.

16 Essential Health and Safety Requirements

Essential Health and Safety Requirements are addressed by the standards listed in section 9 and where required the report listed in section 14.1

The manufacturer shall inform the Notified Body of any modifications to the design of the product described by this schedule.

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